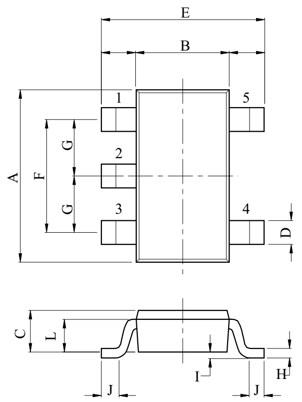
KRA521T~KRA526T

EPITAXIAL PLANAR PNP TRANSISTOR

HIGH CURRENT SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPPLICATION.

FEATURES

- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Output Current : -800mA.

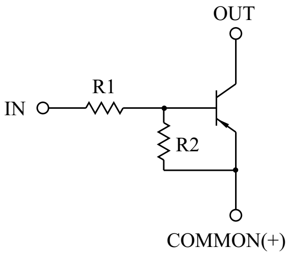


DIM	MILLIMETERS
A	2.9±0.2
B	1.6+0.2/-0.1
C	0.70±0.05
D	0.4±0.1
E	2.8+0.2/-0.3
F	1.9±0.2
G	0.95
H	0.16±0.05
I	0.00-0.10
J	0.25+0.25/-0.15
K	0.60
L	0.55

1. Q_1 IN (BASE)
2. Q_1, Q_2 COMMON (EMITTER)
3. Q_2 IN (BASE)
4. Q_2 OUT (COLLECTOR)
5. Q_1 OUT (COLLECTOR)

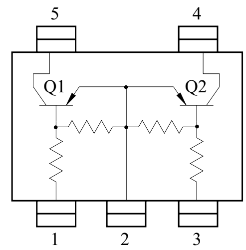
TSV

EQUIVALENT CIRCUIT



TYPE NO.	R1 (kΩ)	R2 (kΩ)
KRA521T	1	1
KRA522T	2.2	2.2
KRA523T	4.7	4.7
KRA524T	10	10
KRA525T	1	10
KRA526T	2.2	10

EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25℃)

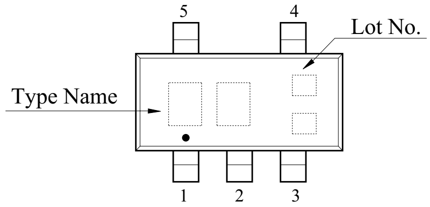
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA521T~526T	V_O	-50	V
Input Voltage	KRA521T	V_I	-10, 10	V
	KRA522T		-12, 10	
	KRA523T		-20, 10	
	KRA524T		-30, 10	
	KRA525T		-10, 5	
	KRA526T		-12, 6	
Output Current	KRA521T~526T	I_O	-800	mA
Power Dissipation		P_D *	0.9	W
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55～150	℃

* Package mounted on a ceramic board (600㎟×0.8㎜)

MARK SPEC

TYPE	KRA521T	KRA522T	KRA523T	KRA524T	KRA525T	KRA526T
MARK	PA	PB	PC	PD	PE	PF

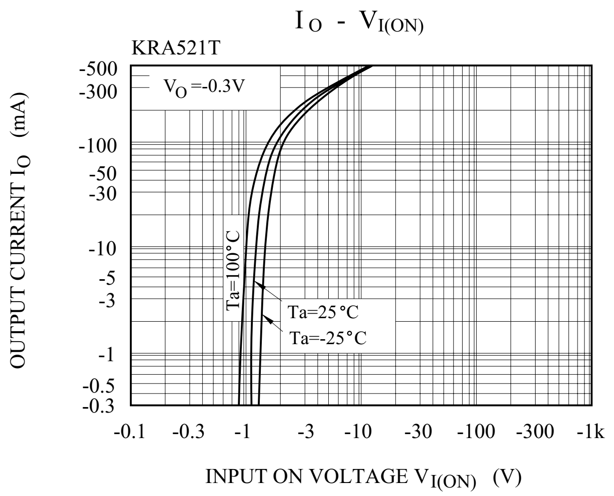
Marking

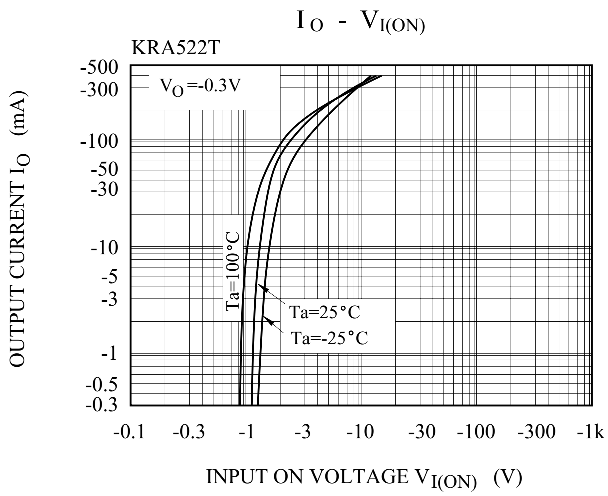


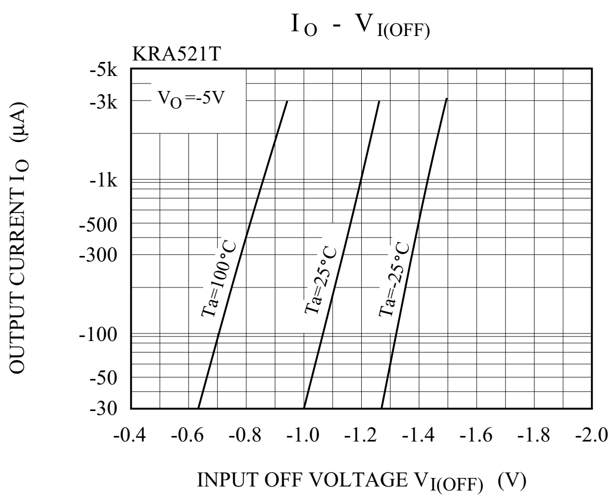
ELECTRICAL CHARACTERISTICS (Ta=25℃)

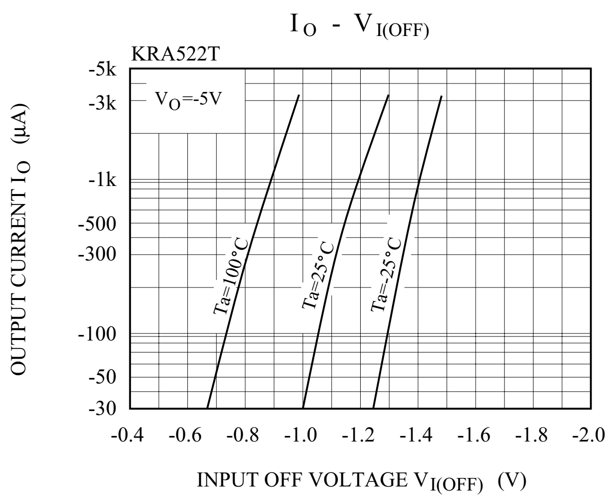
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA521T~526T	$I_{O(OFF)}$	V_O=-30V, V_I=0	-	-	-10	μA
DC Current Gain	KRA521T	G_I	V_O=-5V, I_O=-50mA	33	-	-	
	KRA522T			39	-	-	
	KRA523T			47	-	-	
	KRA524T			56	-	-	
	KRA525T			56	-	-	
	KRA526T			56	-	-	
Output Voltage	KRA521T~526T	$V_{O(ON)}$	I_O=-50mA, I_I=-2.5mA	-	-0.1	-0.3	V
Input Voltage (ON)	KRA521T	$V_{I(ON)}$	V_O=-0.3V, I_O=-20mA	-	-	-3.0	V
	KRA522T			-	-	-3.0	
	KRA523T			-	-	-3.0	
	KRA524T			-	-	-3.0	
	KRA525T			-	-	-3.0	
	KRA526T			-	-	-2.0	
Input Voltage (OFF)	KRA521T~524T	$V_{I(OFF)}$	V_O=-5V, I_O=-0.1mA	-0.5	-	-	V
	KRA525T~526T			-0.3	-	-	
Transition Frequency	KRA521T~526T	f_T *	V_O=-10V, I_O=-5mA, f=100MHz	-	200	-	MHz
Input Current	KRA521T	I_I	V_I=-5V	-	-	-7.2	mA
	KRA522T			-	-	-3.8	
	KRA523T			-	-	-1.8	
	KRA524T			-	-	-0.88	
	KRA525T			-	-	-7.2	
	KRA526T			-	-	-3.6	

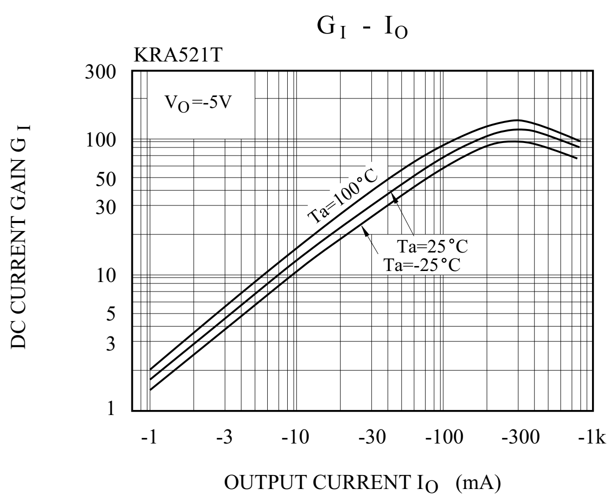
Note : * Characteristic of Transistor Only.

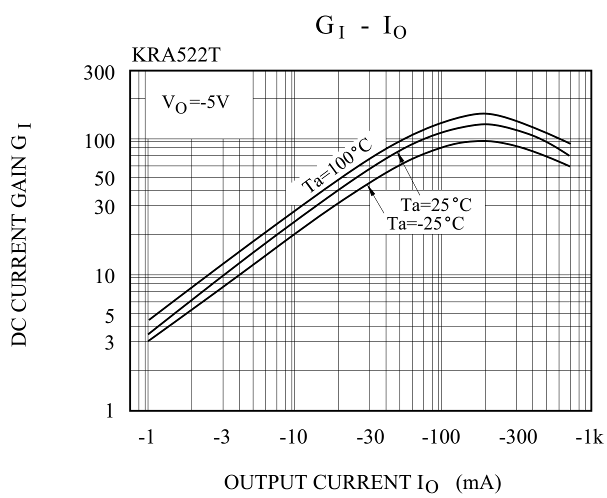

I O - V I(ON)
KRA521T
V O =-0.3V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT I O (mA)
INPUT ON VOLTAGE V I(ON) (V)

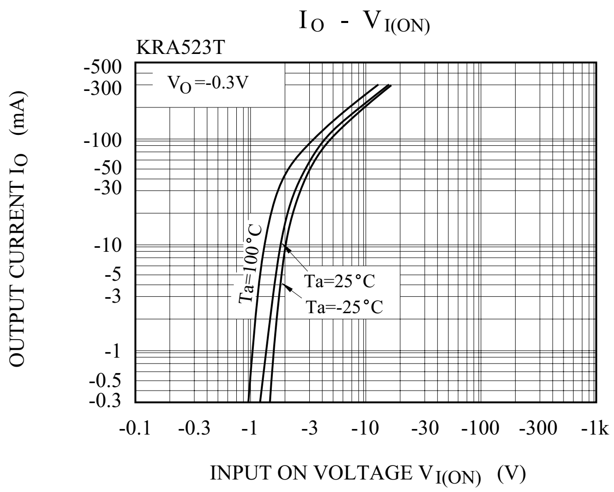

I O - V I(ON)
KRA522T
V O =-0.3V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT I O (mA)
INPUT ON VOLTAGE V I(ON) (V)

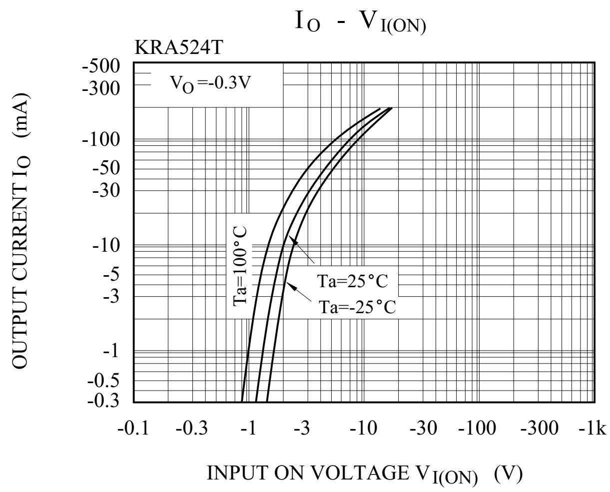

I O - V I(OFF)
KRA521T
V O =-5V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT I O (μA)
INPUT OFF VOLTAGE V I(OFF) (V)

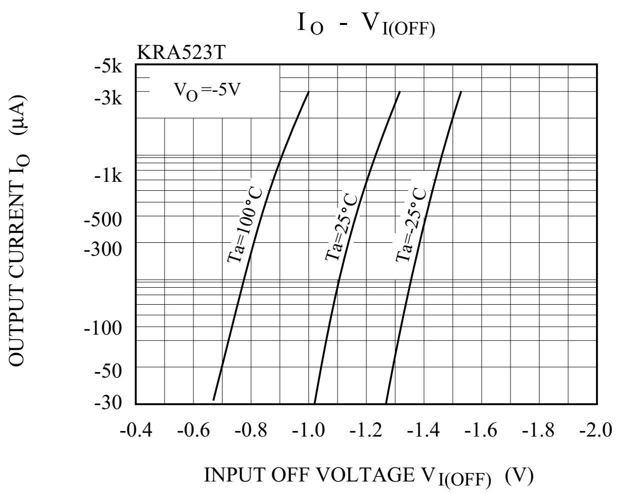

I O - V I(OFF)
KRA522T
V O =-5V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT I O (μA)
INPUT OFF VOLTAGE V I(OFF) (V)

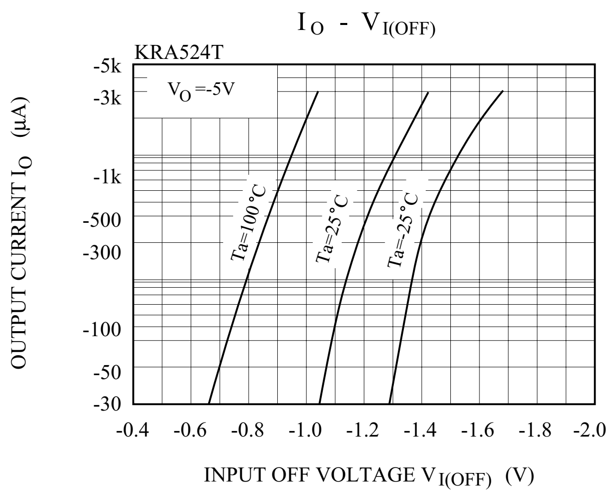

G I - I O
KRA521T
V O =-5V
Ta=100°C
Ta=25°C
Ta=-25°C
DC CURRENT GAIN G I
OUTPUT CURRENT I O (mA)

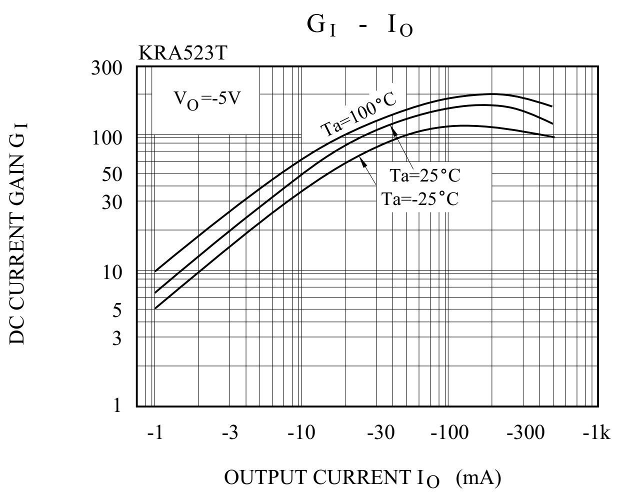

G I - I O
KRA522T
V O =-5V
Ta=100°C
Ta=25°C
Ta=-25°C
DC CURRENT GAIN G I
OUTPUT CURRENT I O (mA)

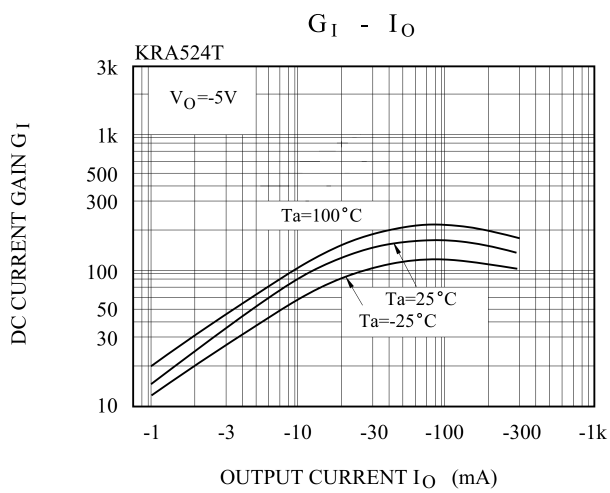

IO - VI(ON)
KRA523T
VO=-0.3V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT IO (mA)
INPUT ON VOLTAGE VI(ON) (V)

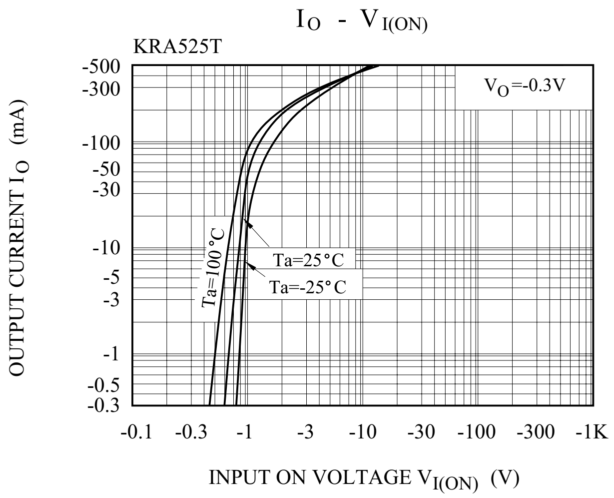

IO - VI(ON)
KRA524T
VO=-0.3V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT IO (mA)
INPUT ON VOLTAGE VI(ON) (V)


IO - VI(OFF)
KRA523T
VO=-5V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT IO (μA)
INPUT OFF VOLTAGE VI(OFF) (V)

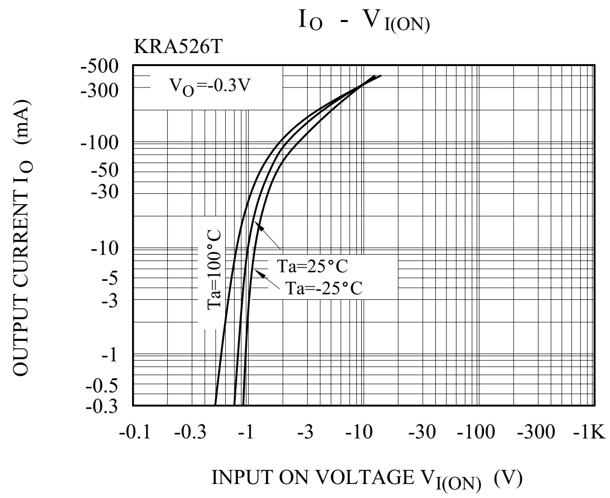

IO - VI(OFF)
KRA524T
VO=-5V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT IO (μA)
INPUT OFF VOLTAGE VI(OFF) (V)


GI - IO
KRA523T
VO=-5V
Ta=100°C
Ta=25°C
Ta=-25°C
DC CURRENT GAIN GI
OUTPUT CURRENT IO (mA)

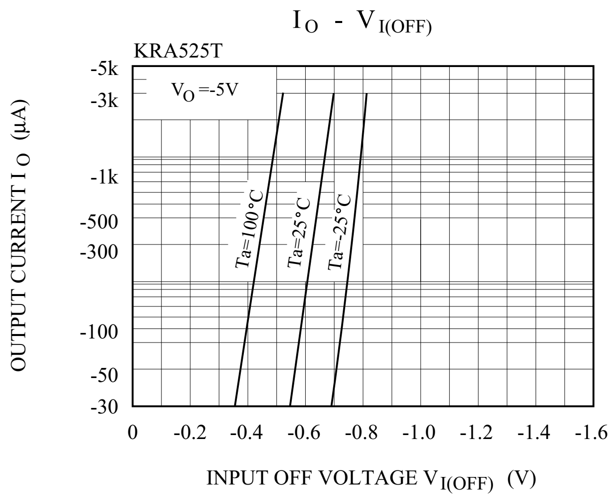

GI - IO
KRA524T
VO=-5V
Ta=100°C
Ta=25°C
Ta=-25°C
DC CURRENT GAIN GI
OUTPUT CURRENT IO (mA)



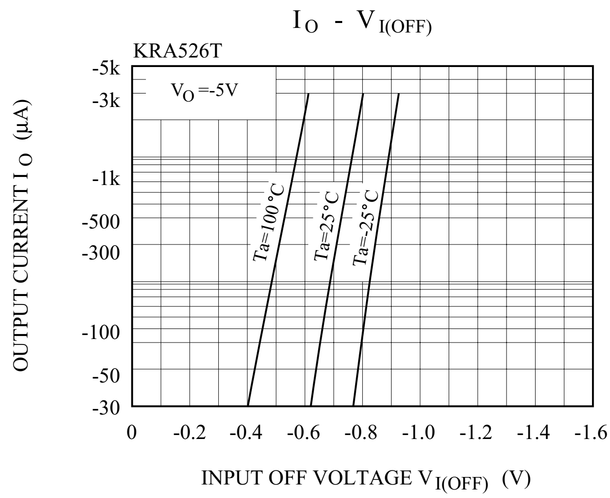
I O - V I(ON)
KRA525T
VO=-0.3V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT I O (mA)
INPUT ON VOLTAGE V I(ON) (V)



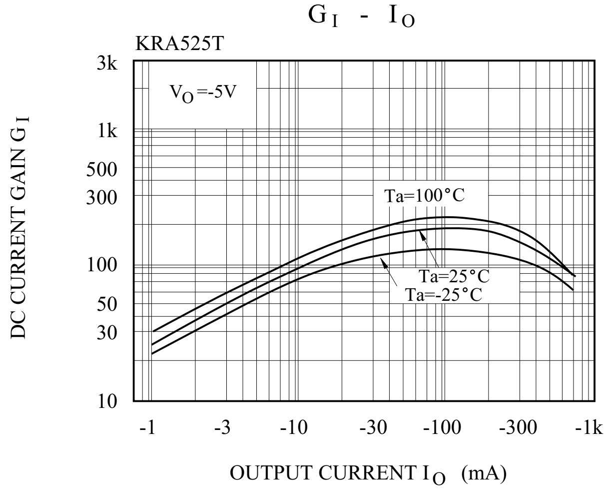
I O - V I(ON)
KRA526T
VO=-0.3V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT I O (mA)
INPUT ON VOLTAGE V I(ON) (V)



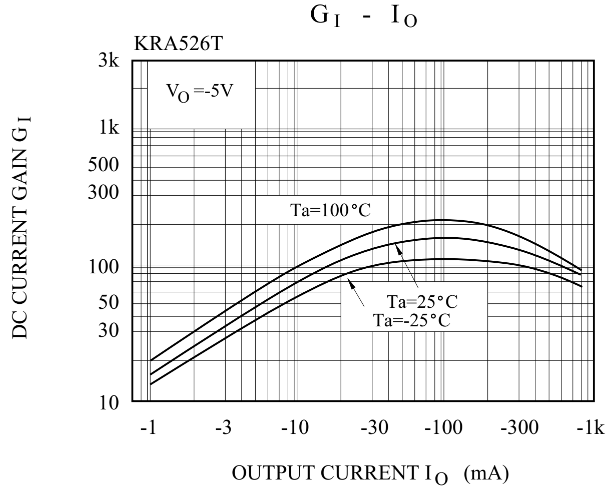
I O - V I(OFF)
KRA525T
VO=-5V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT I O (μA)
INPUT OFF VOLTAGE V I(OFF) (V)



I O - V I(OFF)
KRA526T
VO=-5V
Ta=100°C
Ta=25°C
Ta=-25°C
OUTPUT CURRENT I O (μA)
INPUT OFF VOLTAGE V I(OFF) (V)



G I - I O
KRA525T
VO=-5V
Ta=100°C
Ta=25°C
Ta=-25°C
DC CURRENT GAIN G I
OUTPUT CURRENT I O (mA)



G I - I O
KRA526T
VO=-5V
Ta=100°C
Ta=25°C
Ta=-25°C
DC CURRENT GAIN G I
OUTPUT CURRENT I O (mA)